

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification is changed as follows:

Page 1, amend the specification by inserting before the first line the sentence

This is a divisional of Application No. 09/313,640 (Confirmation No. *Not Assigned*)
filed May 18, 1999, the disclosure of which is incorporated herein by reference.

Page 12, paragraph 2:

An [insulate-coated] insulative-coated conductor wire is sequentially inserted into every third slot portion 51c around the stator core 51. When one round is completed, a second round is made inserting the wire into the same slot portions 51c, and this is repeated a predetermined number of times to form one phase of a stator coil 52 according to the concentrated winding method. In a similar way, the slot portions 51c into which wires are inserted are staggered to form three phases of stator coil 52. Each of the stator coils 52 is composed of rectilinear portions 52a which are inserted into the slot portions 52c, and coil end portions 52b which interconnect between adjacent rectilinear portions 52a at the outside of the stator core 51 in the axial direction thereof. At least one of the number of conductor wires which constitute each rectilinear portion 52a is formed into a polymorphic cross-section, and a number of conductor wires constituting each coil end portion 52b are all formed into a substantially circular cross-section.

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IN THE CLAIMS:

Claims 1-3 and 5-8 are canceled.

Claim 4 is amended as follows:

4. (Amended) A stator of an AC generator [as set forth in Claim 1] for use in a vehicle comprising:
- a cylindrical stator core in which a plurality of tooth portions are provided at equiangular intervals along the inner circumference of a cylindrical core back portion and a plurality of slot portions are each formed between adjacent tooth portions; and
- a stator coil incorporated in said stator core, said stator coil having a group of coils constituted by predetermined numbers of turns of conductor wires and including a plurality of rectilinear portions and coil end portions interconnecting the end portions of adjacent rectilinear portions, said rectilinear portions being sequentially accommodated in the slot portions of every predetermined number of slots and said coil end portions being protruded axially outwardly from the end surface of said stator core;
- wherein a greater part of the group of conductor wires constituting said rectilinear portion, which are accommodated within said slot portion, is formed into a polymorphic cross-section; and
- wherein the ratio of the overall cross-sectional area of the group of conductor wires constituting said rectilinear portion accommodated within said slot portion relative to the cross-sectional area of said slot portion is not less than 75%,
- wherein [at least one] the greater part of the group of conductor wires of polymorphic cross-section which constitute said rectilinear portion which are accommodated within said slot

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portion is directed such that the longitudinal axis of cross-section thereof extends in the radial direction of said stator core.

1. A stator core for a synchronous motor, comprising a plurality of stator poles, each pole having a longitudinal axis, the longitudinal axis of each pole extending in a radial direction of the stator core.